

FOLIO

UNIVERSITY OF ALBERTA
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Budget roundtable begins today

Province now looking for 20 percent reduction

By Tony Myers

Approximately 150 Albertans have been invited to take part in the budget roundtable being held by Advanced Education and Career Development today and tomorrow in Calgary. There will be approximately equal representation from both education "deliverers and recipients."

The purpose of the roundtable, says Jack Ady, Minister of Advanced Education and Career Development, is to ask for "advice about how to maintain high quality and accessible adult education and training while significantly reducing the costs involved."

Earlier this week copies of the budget workbook were given to workshop participants.

President Paul Davenport is attending the session representing the Universities Coordinating Council, an organization made up of the four universities in Alberta.

Also attending are: Bill Grace, Board of Governors; Mike Tamtom, NASA; Dennis Foth, Dean of Extension; Dick Peter, Dean of Science; Terence Filewych, Students' Union President; and Frank Coughlan, Graduate Students' Association President. Jim Marino, Past President of the Academic Staff Association, will be there on behalf of the Confederation of Alberta Faculty Associations.

"The roundtable is an important initiative by the Minister, and I look forward to taking part in it," says Dr Davenport. "Part of our response to budget cuts should be to rethink our system of postsecondary education, and determine if there are structural

changes or other initiatives at the system level which can help in meeting the cuts."

In July, institutions were working with grant reduction scenarios of 15 percent. At a meeting of representatives of the province's 27 higher and further education institutions, held 9 November at Grant MacEwan Community College, Jack Ady said the Provincial Treasurer had "asked each [government] department to envisage how they would address a 20 percent budget reduction and the implications of doing so."

According to the Minister's speaking notes from the meeting, in 1993-94, "\$1.2 billion or 10 percent of the government's total budget goes to Advanced Education and Career Development ... of this amount \$976 million is provided directly to higher and further educational institutions in the form of grants. Roughly 85 percent of this is spent by institutions on compensation. This compensation includes items such as insured benefits and vacation pay as well as salaries."

AAS:UA has responded to the Minister's call for a five percent compensation reduction by issuing a newsletter in which it instructs its representatives "not to agree to a voluntary reduction of the compensation of its members."

The AAS:UA Council also approved a statement of principles to guide the Association in its discussion with government officials and University administration.

NASA Business Manager Mike Tamtom says his Association does not want pay cuts imposed and insists the "sanctity of the collective agreement" be maintained.

President addresses proposed cuts

President Paul Davenport was interviewed on CBC radio earlier this week on the government's proposed budget cuts. In this interview with Folio he sets out his own views on the proposed cuts and their impact on the University.



President Paul Davenport

"Whatever pain there is to endure, must be borne by all and in an equitable manner," concludes Tamtom.

Albertans not attending the budget roundtable may comment on the options and send their suggestions to the Minister by 8 December. Copies of the budget workbook are available by calling 422-4495.

Q: Vice-President Harris's October Budget Forecast assumed a provincial government grant cut of 15 percent over the next three years. Recent government statements have indicated that the cut may be as high as 24 percent over the same three-year period. Are you concerned by cuts of this magnitude?

PD: I am very concerned by the effects on academic quality and accessibility at the University of Alberta of the kinds of grant cuts which the government has been suggesting. My discussions with the Vice-President (Academic) have clearly indicated that grant cuts of the sort the government envisages will lead to even larger class sizes, reduced contact with professors, the undermining of graduate and research programs, and a very severe inability to hire the new academic staff who are the lifeblood of a research university, and all this at a time when the government's own documents indicate that university education and research are vital to the economic future of our province.

We understand fully the need to deal with the provincial deficit and the importance of expenditure reduction as part of that effort. Nonetheless, we must balance the needs of expenditure reduction against the vision of our province set out in the Discussion Paper distributed by the Department of Advanced Education and Career Development as part of the recent public forums: "It appears that now more than at any other time in the past, education and training are fundamental to our ability to compete in the global marketplace, resulting in increased pressures on our adult learning systems in terms of the demand for places and new types of learning opportunities."

That same Department document also stated: "As the most important source of research outside of the private sector, research conducted in universities plays an important role in training qualified personnel and promoting economic and social growth in the province." We hope that through the consultation process, as the government comes to understand the full impact on university accessibility and research of the cuts it is proposing, it will assign a lower cut to Advanced Education than to other areas, and that it will fund research universities at a level which allows those institutions to accomplish the very important goals in accessibility and economic development which the government itself has set for them.

Q: Following on that last point, should Advanced Education receive different treatment from other government departments?

PD: My presentation to the Advanced Education Forum in Edmonton last month argued that the cuts to government departments should be differential, and that Advanced Education should be cut less than the average, for a number of reasons:

Federal funding directed to Faculté Saint-Jean library

Working with Planning and Development to plan renovations

By Michael Robb

About \$6 million of the \$24 million the federal government is providing over several years to Alberta's francophone community will be used for renovations to Faculté Saint-Jean.

Faculté Saint-Jean's big priority is its library, says Dean Jean-Antoine Bour. "The \$6 million will be parcelled out over the next several years, with fairly modest beginnings in the first few years."

"The major thrust of our renovations will be to put two collections together and provide more space for rational expansion of our collections," the Dean said last week.

"Our library problems have always been on top of our lists," he continued. "They're in terribly cramped quarters; the stacks were designed many years ago to accommodate a totally different kind of collection."

The Faculté has its own modest "Eastpoint facility," Dean Bour said, pointing out that thousands of volumes are stored in

the basement of the old annex. Furthermore, the Faculté's curriculum centre, a facility used to support francophone and immersion education programs, is not housed within the existing library. "The rational thing to do is to put it under the same roof as the library."

Over the past several years, the Faculté has been planning renovations. Initially, the costs were pegged at between \$14 and \$16 million, Dean Bour explained. "Then we hit budgetary problems, and we received signals that the amounts were unrealistic. We were then directed by the province and the federal government to look at something more modest that would involve our major priorities."

Planning and Development officials' rough estimates of renovations were in the \$5 to \$7 million range.

The Faculté will also renovate released space when the library is moved. Most probably, it will be converted to classroom and office space.

The federal money will also support school governance, program development,

school/community centres, nonuniversity fellowships and teacher training fellowships.

The two levels of government will negotiate when the money will be allocated. "Once we know when such amounts come at such times, we can proceed with planning," the Dean said. "We're in the beginning of the design/development phase with Planning and Development." The next steps are: preparation of construction drawings, tendering of the project, and construction.

In other news, the province, during the last Legislative Assembly session, passed Bill 8, a bill giving francophones the authority to establish their own school boards. Dean Bour says he doesn't see an immediate impact on the Faculté as a result of the passage of the bill. But in the longer term, there will likely be slightly larger enrollments in the Faculté.

"Our role will grow, not simply to welcome and educate students, but also in providing expertise in the broader community," he said. The Faculté's historians and sociologists, for example, will continue to be called on to provide leadership in the community.

Continued on page 2

Faculty of Education helps pilot video conferencing technology

Project designed to improve practicum component of BEd program

Every year thousands of education students spend some time in Edmonton and area elementary and secondary schools, fulfilling the practicum component of the BEd degree. It's a chance for student teachers to experience the real thing and practice being teachers.

Now, a project between the Faculty, a few area schools, and Northern Telecom is being piloted to see whether a technological communications tool can augment and strengthen that practicum component of the degree program.

VISIT video, a desktop multimedia system integrating desktop video conferencing, screen sharing, high speed data transfer, electronic voice mail and voice call management, all on desktop computers, has been installed in the Faculty and in three schools.

The technology allows users to see one another through a video window on screen. It's being used to introduce student teachers to schools, to exchange information between schools and the Faculty and, possibly, to watch student teachers in the schools. Northern Telecom wants to learn from the Faculty's experiences with the technology, and the Faculty wants to see what kind of potential the technology has. Northern Telecom has lent the technology and EdTel has allowed the users to access its transmission lines.

"We want to see if we can find ways of making the technology a useful tool; we don't want to use it simply because it's there," says Instructional Technology Centre distance education consultant Ingrid Stammer.

The trial period will end in December. "We'll gather data and look at how things worked technically, particularly in terms of pedagogy," she explains.



Secondary Education Professor Alton Olson demonstrates VISIT video facilities in the Faculty of Education.

It's not the first time the technology has been used in Edmonton. The Edmonton Public School Board's writer-in-residence, Lyle Weis, used it last year. Students would send him their poetry and short stories. Once he had reviewed the material, students would sit in front of the VISIT video-equipped computers at their schools and talk with him at his similarly equipped computer.

Dr Weis says the advantages are pretty obvious. Face-to-face contact is possible and he and the students were able to discuss texts of writing which appeared on their screens. While that pilot occurred between two schools in Edmonton, WP Wagner and TD Baker, Dr Weis points out that the technology could be used over much greater distances, say, between Edmonton and Manning. Travel costs that would normally be incurred by the writer would be eliminated. But, of course, the technology costs money, and that's the disadvantage, he points out.

According to Stammer, the technology works well for one-on-one conversations. Dr Weis, for example, thought his sessions with students went well. Obviously, there are still some unanswered questions, however. For example, can it work as a classroom tool?

Q and A with President Davenport

Continued from page 1

- Recent strategic studies of our city, province, and country, including Edmonton's strategic plan, Alberta's *Toward 2000 Together* initiative and the document on *Seizing Opportunity* recently released by Mr Klein's government, the federal Prosperity Initiative and M. Chretien's Liberal policy book, all agree on one issue: advanced education and research are vital to our economic, social, and cultural development over the next decade. Cuts of the sort envisaged by the government will simply not allow Alberta's postsecondary institutions to play the role envisaged for them in *Seizing Opportunity* and these other policy documents.
- Moreover, we in postsecondary education have tightened our belts severely over the past decade, with our real expenditures per student falling by over 20 percent and our share of total provincial spending declining. Other major government departments, including Health and Education, cannot make those claims.
- Finally, Advanced Education faces a unique accessibility problem: the Department's own forecasts show an increase in demand for access to university level courses of between 50 percent and 150 percent to the year 2005. The proposed cuts over the next three years will seriously undermine our efforts to meet that accessibility challenge of the coming decade.

Q: So what about accessibility and budget cuts—will we become an elitist university?

PD: With 26,000 undergraduates we are a long way from being "elitist." We in fact grant over half of the undergraduate degrees in the province, so that if budget cuts force us to restrict access, there are repercussions throughout the postsecondary system in Alberta. Over the last several years we have been leaders in the province in increasing our undergraduate enrollments despite severe budget cuts. We are committed, however, to both accessibility and quality in undergraduate studies, and given that commitment to quality, we simply can not absorb the proposed grant reductions without reviewing our admissions and enrollment management policies.

We feel there is a lack of consistency in the Department's emphasis on accessibility and the cuts they are suggesting. The fact is that the proposed cuts are simply inconsistent with the Department's forecasts of future enrollments to which I referred earlier. Moreover, we do not yet have a clear statement on the allowable tuition fee increases, and that is a cause of extreme concern. If these cuts go ahead without any change to the current cap on tuition fees, accessibility will be greatly reduced.

Q: But won't higher fees restrict accessibility? Students are just unable to pay any more.

PD: Higher fees need not restrict accessibility if needy students have access to a strong loan system. Our Strategic Plan sets out a scenario on fees and accessibility to the year 2005 which has four main elements:

- grant: the government grant declines by 15 percent in real terms over the next five years and increases thereafter with the general growth in the economy;
- fees: tuition fees increase at about \$250 a year until they account for about a third of total expenditure;
- loans: the government strengthens the current

student loan system and adds an income-contingent repayment plan;

- accessibility: undergraduate enrollments increase substantially at the U of A so that together with our postsecondary partners we meet the accessibility challenge outlined in the Department's forecasts.

We face major problems on each of the first three elements: the proposed grant cuts are simply too large if we are to meet our accessibility goals; the fees cap is still in place; and there is as yet no provincial commitment to a strengthened loan fund. This is a system-wide problem: our system as a whole simply can not accommodate significant increases in enrollment under the proposed grant cuts and the current loan system with the fee cap.

Q: Will cuts endanger academic quality at the U of A?

PD: They certainly will. Over the past 85 years Albertans have built a university of truly international stature in the University of Alberta. We operate in a very competitive environment, however, as we compete for outstanding faculty, graduate students, and undergraduate students with universities across Canada and in some cases with U.S. and overseas universities. For many of us at the U of A the most disturbing aspect of the proposed cuts is that they may signal the start of a decline in our international reputation which once started will be very hard to reverse.

Last month at the University, the mayor and I received Dr George Haas, head of worldwide research programs at Ciba-Geigy's headquarters in Basel, Switzerland, who announced two major contracts involving U of A researchers in carbohydrate chemistry and heart disease. In his remarks, Dr Haas stressed that this was *not* a charitable donation, but rather a partnership with the University based on the fact that in these two areas we are among the world leaders. We have areas of excellence of this sort throughout the University, and we are very concerned that the cuts in government grant be planned in a manner which allows us, with tough selective decisions, to preserve what is truly outstanding at the University of Alberta.

Q: So should we expect differential budget cuts at the U of A again this year?

PD: Yes, indeed. All of the Vice-Presidents will be taking a differential approach to budgeting, as will the Faculties and the major service units. Whatever the level of the cuts we face, we are determined to see that they do the least damage possible to quality and accessibility. We at the U of A have been leaders in Canada in recent years in selective budgeting and we intend to continue to be so.

Q: What will happen at the budget roundtable to be held by the Minister in Calgary on November 19 and 20? Do you agree with the suggestions in the workbook that the Department of Advanced Education has distributed?

PD: The Roundtable is an important initiative by the Minister and I look forward to taking part in it. I will be stressing the role of university teaching and research in our province's future, and our province's crucial need for a strong university system in the decade ahead. Part of our response to budget cuts should be to rethink our system of postsecondary education and determine if there are structural changes or other initiatives at the system level which can help in meeting the cuts. There may well be actions that we can take jointly which no single institution can take on its own. The workbook has a wide variety of options on numerous issues, and I look forward to a frank discussion of those options with the other participants in the roundtable.

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University now part of CHECKSTOP program

Campus Security Services (CSS) has joined the Edmonton Police Service's CHECKSTOP program.

CHECKSTOPS will be conducted in and around campus on a regular basis, says CSS' Dennis Dahlstedt.

"We strongly advise all staff and students, who enjoy a drink, not to drive," he says. "Make use of public transportation, call a friend or family member to pick you up, or arrange for a designated driver."

Dahlstedt also advises that the University Steer Clear program is now available. "This program allows you to leave your vehicle on campus overnight until 9:30 am the next morning at no charge. All you have to do is give your name, licence plate number, and vehicle location to either Parking Services, 492-7275 (answering machine) or the bartender of the campus bar, who will call Parking Services."



University
of
Alberta

'Mandatory evaluation of teaching: yes! Universal questionnaire: No!

By Reuben Kaufman, Professor of Zoology

On 12 October, General Faculties Council passed a resolution which will change the nature of teaching evaluation beginning September 1994.

Ten or 15 years ago, student evaluations were conducted on a voluntary basis and used by instructors primarily to improve teaching. Although there are still some authorities who question the validity of student evaluations as they are normally conducted, I accept the premise that student feedback is a useful measure of teaching effectiveness. Indeed, any evaluation of teaching that ignores student input should be suspect.

With development of the *Instructor Designed Questionnaire (IDQ)*, many Faculties have made teaching evaluation compulsory, and I suspect that most of them use the information in one form or another at Faculty Evaluation Committee (FEC). The above said, GFC passed a motion which replaced an imperfect system with something that seems worse to me. Three major changes are:

1) There will be a universal teaching questionnaire (UTQ; 14 questions selected from the IDQ manual, two of which are for demographic information); with minor exceptions, all instructors must use this questionnaire as one component of teaching evaluation.

2) The numerical results of the questionnaire shall be made available to FEC as well as online on Campus Wide Information System (CWIS).

3) Finally, "Evaluation of teaching ... shall be multifaceted. It shall be comprised of [sic] a required Universal Student Rating of Instruction and some other method(s) ... which incorporate input from administrators, peers, self ... and alumni."

I have major problems with 1) the idea that all instructors henceforth must use a standard questionnaire, 2) with the breach of confidentiality and likely use of the published numbers, 3) with the quality of many of the questions and, most important 4) with the probability that these changes in evaluation procedure will deflect attention away from what is far more important: what do we do after we have evaluated?

Breach of confidentiality

It seems most improper to take private information on an individual and publish it without permission. (It may even be 'illegal', but in the few universities that have instituted a UTQ, this seems not to have been tested.) One distasteful consequence of making individual scores public is that students will now be able to choose their courses in the way that *Maclean's* magazine would have the public select which university to attend. The notion should be abhorrent to all of us that number crunching is a valid way to select courses. Let's imagine how this might work in practice. Consider an introductory course with six sections taught by six instructors. A student finds out who is assigned to each section and naturally wishes to choose the "best" professor. She learns that the mean scores are 3.8, 3.9, 4.1, 4.3, 4.4 and 4.5 (maximum possible is 5); well, it's quite obvious that the professor with a mean score of 4.5 is the one to choose; but alas, my timetable permits only sections 3.8, 3.9 and 4.2; double alas!, sections 3.9 and 4.2 are already full. Gosh, I'm going to be stuck in the WORST SECTION OF THE COURSE! How about applying this idea elsewhere? For example, let's get the provincial government to publish statistics on suc-

cess/failure rates by surgeons in hospitals. Don't patients have the 'right' to choose the surgeon sporting the best statistics?

University students quickly learn the general reputations of professors A to G and will usually be satisfied if that reputation is "good or better" (never forgetting, of course, that there is rarely unanimous feeling about these sorts of things). Ranking professors by a series of numbers might not only have a student begin the course with a negative attitude, as in the example above, it may also lead to unhealthy competition among instructors. I have yet to hear arguments from any quarter that the potential benefit from publishing raw scores (students will be able to avoid at least some courses) outweighs the potential harm.

Mandatory evaluation of teaching: YES! Universal Questionnaire: NO!

The IDQ was introduced years ago precisely because there are significant differences among Faculties, departments and professors with respect to evaluation needs. The Science Faculty requires that six questions appear on our evaluation forms, and this allows me reasonable space in which to include others. But, the greater the number of required questions, the less room there is for feedback that I may find useful. At the GFC meeting, promoters of the universal questionnaire suggested that there was plenty of room left on it for additional questions, but that isn't so. For several reasons, the practical limit is about 20 questions, especially if one is to leave sufficient time for written responses on the back. In the opinion of many of my colleagues the written responses are far more valuable than the numbers. With 14 universal questions plus six required for the Faculty of Science, it forces me to relinquish many of the questions that I have found useful. To add insult to injury, at least two of the compulsory questions (demographics) are useless (one can get the information from the class list if it is really wanted), and I perceive significant weaknesses in at least five of the other questions. Even though the quality of those questions could be debated at length, the real point is that I will be forced to use them, in the place

of questions that I believe to be better. The main strength of the current system - each questionnaire can be finely tuned to individual needs - is essentially undermined by the UTQ.

The proposal was developed over one to two years by CITL, a committee which deserves much praise for promoting effective teaching and learning on campus. Several times at the GFC meeting, supporters of this proposal from CITL emphasized that it was extremely difficult to come up with specific questions that would please everybody; the final version of the UTQ was really the best they could all agree on. Why didn't they take a message from that experience: Some policies can be applied universally; others can't.

Here are some suggestions which I think would improve our evaluation procedures and would demonstrate accountability to the public better than the tinkering done at GFC:

1) Many courses are evaluated during a 15- to 20-minute period at the end of a class. Students should be given the option of filling out these forms on their own time instead. There would be fewer returns, of course, but all of them would be much better thought out.

2) When I came to the U of A 16 years ago, there was essentially no support system for helping novice instructors. "These are the courses you'll be teaching, Reuben; develop your curriculum as you see fit and have a nice day." My first (and only) peer evaluation occurred several weeks before I was up for promotion to Associate Professor. Well, needless to say, it was disconcerting to have a colleague come into my class with the sole objective of reporting to the chair on that day's 'performance'. I fear that my experience might be the norm. It would be better that all incoming instructors be assigned a teaching mentor within the department. There would be collaboration with the new instructor from the beginning. With more peer collaboration, the prospect of peer evaluation would be much less daunting.

3) The new policy now requires that the burden of teaching evaluation will no longer fall completely on the shoulders of students.

I applaud this in principle, but unfortunately, the proposal offers no mechanism for ensuring that all these data are collected. My jaundiced eye sees this remaining as an ideal goal which will never be implemented universally, and rarely in a serious way, because of the difficulty and expense of collecting this type of data for "all instructors and course sections ... each time a course is offered". Nevertheless, I believe that these components of evaluation should become normative at the U of A before student evaluations are raised to yet a higher plane of sanctity.

4) What we do when we identify a weak instructor has been completely overlooked in the zeal to establish a UTQ. Students I've spoken to aren't perceiving a lack of opportunity to evaluate, but they aren't convinced that anything positive happens subsequently. A recent article in the student newspaper underscores this point. The article ("Grading Teachers", by Juliet Williams, *Gateway*, 14 October) opened with the (approximate) statement: "Those questionnaires you fill out at the end of each course may not be headed for the garbage after all".

UTS has sponsored a superb Peer Consultation Program for many years. This program is strictly voluntary: they will not accept referrals from chairs or deans. Perhaps this is the policy that should be reviewed. Instead of the chairman threatening the instructor with penalties at FEC, she could direct some remedial action. I think students would benefit far more and accountability would be easily demonstrated if a concrete remedial program were established instead of the more flexible evaluation policy; the new GFC dictum addresses that issue only obliquely.

Although GFC obviously has the final word in these matters, I'm sure we can still influence implementation of the policy and hopefully improve it. If you are concerned about some of the consequences I have outlined here, discuss it with your chairman or dean, and send a letter to Dr John McDonald, Vice-President (Academic). Incidentally, I won't mind being flooded with CCs.

Advanced Engineered Materials director seeks more collaboration with industry

Early in his engineering career, Bob Fraser helped to develop a nickel-based alloy for use in jet engines. "We were quite successful; now it's used in 747 engines," says the new director of the Faculty of Engineering's Advanced Engineered Materials Centre.

"While we were doing our job, trying to increase the melting point and the operating temperatures, the mechanical engineers were busy developing methods to cool engines with air. They were just as successful as we were.

"So I've never forgotten the fact that we were in a competition of ideas."

He kept that lesson in mind throughout his 33-year career with Sherritt-Gordon. Now, the former director of technology for that firm and former vice-president of Westaim will put that lesson to work for the UAEM.

Now more than ever, tackling industrial problems and coming up with innovative solutions requires interdisciplinary cooperation and industrial-university partnerships, says Fraser.

He says the Centre has made considerable progress, under its first director, Fernand

Ellyin, in its overall objective of fostering exchanges between researchers from different scientific and engineering disciplines related to advanced materials. In fact, he estimates close to 200 people, including research associates and graduate students, are working on advanced materials. "This University is doing a lot of materials research."

Fraser hopes to pay particular attention to three of the Centre's goals: promote the materials research capabilities of the University in the industrial and government sectors; seek industrial partners for the ongoing and new research of UAEM members and promote joint university-industry research collaboration in materials engineering; and, encourage research contracts and consulting services.

The Centre is one of a number of advanced engineered materials centres springing up on campuses across the continent. Proponents



Bob Fraser, University of Alberta Advanced Engineered Materials Centre director.

agree that advanced materials such as polymers, ceramics and composites are essential to the future growth of high technology industries such as aeronautics, electronics and chemical processing.

"I'd really like to encourage people in the industrial sector to bring their problems to members of the Centre," Fraser says. "The objective is to make professors more aware of industry's problems and make industry more aware of the professional expertise on campus."

Fraser, a member of the U of A's first graduating class of metallurgical engineers in 1958, went on to earn an MEng from UBC. He recently took early retirement, and was asked by Dean Fred Otto to direct the Centre on a part-time basis. "I couldn't think of a better place that I could fit into," says Fraser.

Editors of *Uncovered Past* hope book will be a catalyst for more research

By Michael Robb

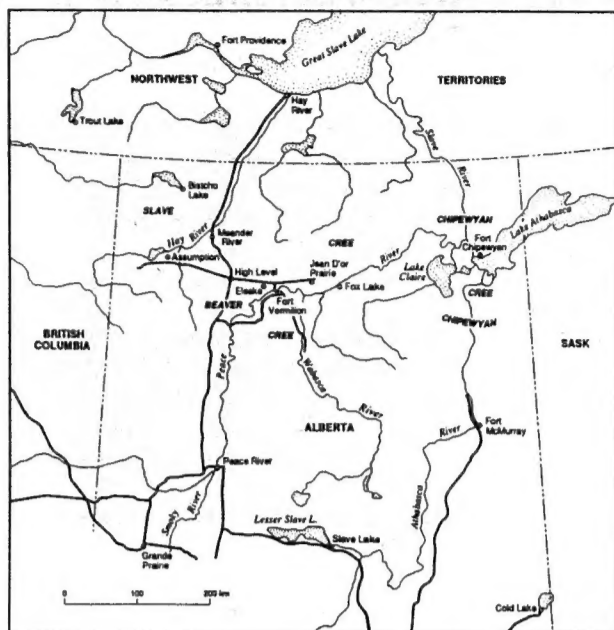
What does "the North" mean to you as an Albertan? How much do you know about the natural and human history of that vast mid-northern boreal forest lying within provincial boundaries?

The answers to those questions will vary, depending on who you're talking to, but there's little doubt that Albertans' knowledge about their own northern expanses is by no means extensive.

Co-editors Patricia McCormack and Geoffrey Ironside hope their recently published book, *The Uncovered Past: Roots of Northern Alberta Societies*, will contribute to a greater understanding of the area and spawn further scholarship on northern Alberta.

The Uncovered Past, the (1993) companion volume to the Proceedings of the Fort Chipewyan-Fort Vermilion Bicentennial Conference, provides a number of scholars who participated in the 1988 conference with an opportunity to explain their research results, which at the time of the conference were not yet completed, explains Dr McCormack.

Many of the papers included in the collection challenge conventional scholarship about the north, partly because scholars are now listening to aboriginal people, she says.



Northern Alberta: a vast hinterland of uncharted scholarly activity.

The volume is divided into two major sections: the archeological and fur trade record, and economy, state and culture. Many of the contributors are familiar to this campus. The first section includes a piece by John Ives on "The Ten Thousand Years before the Fur Trade in Northeastern Alberta." Heinz

Pysczyk writes "A 'Parchment Skin' is All: The Archaeology of the Boyer River Site, Fort Vermilion, Alberta;" Michael Forsman writes "The Last Bourgeois' House at Fort Chipewyan;" Theresa Ferguson's contribution is titled "Wood Bison and the Early Fur Trade;" and Jennifer Brown discusses "Fur Trade History as Text and Drama."

The second section begins with a piece by co-editor Dr McCormack called "Romancing the Northwest as Prescriptive History: Fort Chipewyan and the Northern Expansion of the Canadian State." Education professor Robert Carney writes about "The Grey Nuns and the Children of Holy Angels: Fort Chipewyan, 1874-1924;" Native Studies professor Richard Price tackles "Con-

temporary Land Claims Negotiations and Settlement: The Political Leadership Challenge of Alberta's Fort Chipewyan Cree;" Anthropology professor Michael Asch and Shirleen Smith discuss "Some Facts and Myths about the Future of the Hunting and Trapping Economy in Alberta's North;" and Andrew Haden's "Farmers' Attitudes and Agricultural Land Expansion in Improvement District 23, Alberta" is a look at northern agriculture. The last piece in the collection is Patrick Moore's "Native Dance in Northern Alberta."

While the Proceedings juxtaposed formal research studies with personal anecdotes and experiences of aboriginal and northern peoples, *The Uncovered Past* stands as a companion of more traditional scholarship.

Both Drs McCormack and Ironside say there's an immense scope for basic and applied research about the human condition in northern Alberta. For example, their recent volume includes papers on fur trade post archeology; but nothing on aboriginal settlement during the historic period. And there are no papers on population geography and demography, industrial resource development, aboriginal wage employment or contemporary community problems.

Dr Ironside says there's a particular need for research on how human intervention has changed the physical environment. Large-scale industrial developments have occurred in the northern regions of the provinces in areas where large aboriginal populations reside.

"This volume meets a need, but it's only one volume," he says.

Both Dr McCormack, an anthropologist with the Provincial Museum, and Dr Ironside, a geography professor at the U of A, are hopeful that enquiry will include more analyses by scholars from the aboriginal, nonaboriginal and northern communities.

The volume was backed financially by the Canadian Circumpolar Institute and Alberta Culture and Multiculturalism.

Nursing buying much needed equipment Grant from Helene Fuld Health Trust makes it possible

The paperwork paid off, and how.

The Faculty of Nursing, learning that the Helene Fuld Health Trust in New York awards grants for projects of benefit to nursing students, made application and received an award of \$45,000 US (\$59,200 Cdn).

Nursing's proposal, which was made jointly with the University of Alberta Hospitals School of Nursing, was in the running along with those from 321 other schools of nursing. The total of the sums requested exceeded \$21 million.

"It took a lot of time and energy to get the first one [application] in," said Rene Day, Associate Dean of Undergraduate Education. The questions ran the gamut from detailing every faculty member's qualifications and experience to student enrollment patterns over the last five years.

Professor Day thanks Royal Alexandra Hospital School of Nursing administrators for their assistance, saying they had received

funding previously themselves and were able to provide the Faculty with several pointers.

Nursing has purchased and continues to purchase equipment that will assist in teaching and evaluating students and that can be used by students both in the community and in the Nursing Health Centre in the Clinical Sciences Building.

We bought some portable diagnostic sets, wall-mounted equipment, teaching models and specialized assessment equipment, Dr Day said. Everything is necessary for students' conducting a physical examination.

"We had a lot of this equipment, but the teaching of health assessment started about 1976 and much of the equipment is aging," Dr Day said. "We're trying to stock our 13 examining areas and we're purchasing new, state-of-the-art equipment."

The Helene Fuld Health Trust is America's largest charitable trust devoted exclusively to excellence in nursing education.

An aviation first

The University of Alberta is the first university in Canada to give a course credit towards a science degree for people who have a Transport Canada approved aviation licence along with groundschool requirements. The initiative, in the Department of Geography, is part of the aviation industry's move to make pilots more employable by furthering their education.

John Shaw, who chairs the Department of Geography, says it is the natural choice for administering the course credit. "We have a commitment to meteorology as well as having a wealth of maps and navigation guides," he says. The course credit is not a specific course and is referred to as Geography 1XX. In addition, Dr Shaw says the course credit is an incentive for people to come to the University.

The initiative took flight about two years ago when Aero Aviation Centre Ltd approached the University with the idea of granting a degree credit for aviation training completed at any accredited Transport Canada flight school. Aero Aviation recognized the job market had become increasingly more competitive for its students and that all Canadian aviation graduates needed an edge. They determined that a postsecondary education was that edge. Since then, the Geography Department has fine-tuned the course credit for offering this year.

To date, two people have enquired about the course credit and one has received a credit towards his science degree. The other is awaiting a response from her home Faculty, the Faculty of Business, to a letter from Geography asking for their approval of a credit towards her BCom degree.

University joins Sigma Xi

At a brief ceremony at the Faculty Club last Friday, the University was installed as a club of Sigma Xi, The Scientific Research Society.

Kumar Patel, president of Sigma Xi and vice chancellor for research at the University of California at Los Angeles, was the installing officer.

He signed the University's charter and presented it to Jack von Borstel (Genetics), a member of the Sigma Xi Chapter Organizing Committee. Dr Patel also reminded the audience that Sigma Xi has an obligation to let the public know what science is all about and why it's important to the public.

"We will, for a relatively short time, be regarded as a 'club' rather than an active chapter, but our status will be changed to active chapter in the not too distant future," says David Cass (Botany), also a member of the organizing committee.

"I am extremely pleased that a chapter of Sigma Xi, The Scientific Research Society, has been established at the University of Alberta," says Vice-President (Research) Martha Piper. "Over the years, Sigma Xi has been an advocate for research in science, speaking forcefully for the value of science in today's soci-

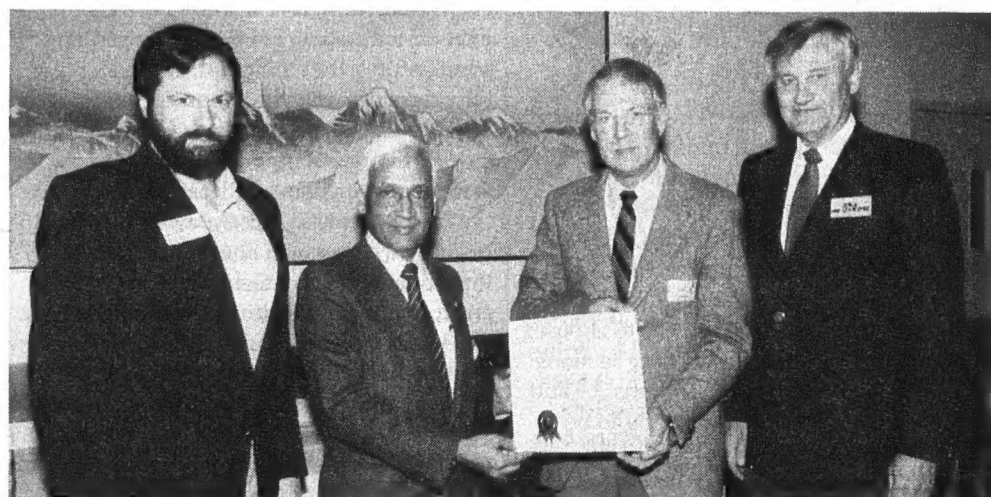
ety. Sigma Xi has consistently enforced rigorous standards of professional conduct, in both teaching and research.

"Recently, Sigma Xi has focused its activities on major global problems, where solutions will require interdisciplinary collaboration and new modes of partnership among industry, government and the research community. For these reasons, the goals of Sigma Xi complement those of the University."

Sigma Xi, The Scientific Research Society, was founded in 1886 as an honour society for scientists and engineers. Today the Society actively promotes scientific research and the promise of science and technology.

Approximately 100,000 scientists and engineers are active members of Sigma Xi in North America and abroad. There are more than 500 chapters and clubs at academic institutions, government laboratories and industry research centres.

Membership in Sigma Xi is by invitation. The most promising young scientists and students with demonstrated research potential are invited to join as Associate Members; full membership is conferred upon individuals who have demonstrated noteworthy achievements in research.



Jonathan Tyler, Kumar Patel, David Cass and Jack von Borstel, left to right, with the charter that gives the U of A club status in Sigma Xi.

Maclean's rankings: University still in top 10

For the third year in a row, the University of Alberta is among the top 10 major research universities in the country, according to *Maclean's* magazine.

The University ranked 10th in *Maclean's* third annual ranking of Canadian universities.

The purpose of the issue, say *Maclean's* editors, is "to give Canadians a better picture of what universities are doing, and of how well they are doing it. More importantly, the comparison is designed to give students a critical tool to use in making one of the most important decisions of their lives. For the universities, meanwhile, the survey affords an opportunity for each to clarify its own vision and to measure itself against its peers".

John McDonald, Vice-President (Academic), responded to the rankings by saying, "We have been collecting information about our performance and will be considering *Maclean's* findings along with a good deal of other information to help us identify areas which need to be addressed." Dr McDonald added that the Board of Governors adopted the Strategic Planning Task Force's report, *Degrees of Freedom*, as the University's strategic plan to the year 2005. This, he said, is the University's guidepost for the future, not *Maclean's* rankings.

The U of A ranked 10th in both 1991 and 1992. The first issue caused considerable furor among Canada's smaller universities, primarily undergraduate universities such as Trent, Lethbridge and Mount Allison Universities, who said it was like comparing apples and oranges to rank them in the same category as the country's major doctoral/medical universities. Since then, the following two issues have separated universities into three distinct categories: medical/doctoral universities; comprehensive universities; and primarily undergraduate universities. The U of A is ranked in the 15 member medical/doctoral universities category.

For the third straight year, McGill University ranked first while Queen's University in Kingston was second and the University of Toronto listed third. Filling out the top ten are the University of British Columbia, McMaster University, University of Calgary, Université de Montreal, Dalhousie University and the University of Ottawa, respectively.

Although ranked 11th in the size of first and second year classes and 13th in our third and fourth year classes, the U of A maintained its first class ranking in library holdings per student.

Health Sciences Career Fair set for 25 November

Career and Placement Services (CaPS) is holding its Health Sciences Career Fair '93, Thursday, 25 November. It will take place in Dinwoodie Lounge from 2 to 7 pm.

The fact that so many employers are still participating in the career fair despite what's happening in the health sector indicates those employers believe they have a responsibility to explain to U of A students what's happening out there, says CaPS Director Wendy Coffin.

These employers don't want to lose touch with U of A students, adds CaPS Career Fairs/Forums Coordinator Carey Castillo.

People in these organizations are expressing a desire to continue their good service to students—their potential employees—even though the sector is experiencing cutbacks, says Castillo. It's still very important to them to recruit good people.

This year, the health sciences employers come from Alberta, Northwest Territories, British Columbia and Saskatchewan. For the first time, three employers from the United States will be present.

Board alters its committees

The Board of Governors has made a number of changes to its committees.

Bill Grace, formerly Chairman of the Finance Committee, is now a Vice-Chairman of the Board and Chairman of the newly established Board Planning Committee. Other members of BPC are: Ron Bercov, Frank Coughlan, Terence Filewych, Graham Lock, Ed Makarenko, Anita Moore, Robert Rosen, and Grant Smith.

Robert Rosen succeeds Grace as Chairman of the Finance Committee.

Al Hiebert, who was Chairman of the Board Academic Affairs and Human Resources Committee, has agreed to serve as a Vice-Chairman of the Board. Penny Reeves now heads BAAHRC.

Reg MacDonald's term on the Board has expired, and Graham Lock has succeeded him as Chairman of the Audit Committee.

Other changes see Grant Smith join the Investment Committee in place of Rosen, and Len Leibel and Elmer Brooker replace Grace and MacDonald as Board representatives to the Senate.

CURRENTS



Physical Education paying tribute to five retirees

The Faculty of Physical Education and Recreation will host a dinner to honour five retirees: Gerry Glassford, Gerry Redmond, Harvey Scott, Ross Macnab, and Ed Zemrau. Details of the evening are as follows: *Date*: 9 December. *Time*: Cocktails, 6:30 to 7:30. *Dinner*: 7:30 to 8:30. *Presentations and reflections*: 8:30 to 10. *Location*: H&G Caterers, 3840 76 Avenue. *Price*: \$25 per person (a cash bar will be available). Cheques should be made payable to: Physical Education Social Committee. The deadline for obtaining tickets is Monday, 6 December.

For additional information or to purchase tickets for the evening, contact: Judy Ellett, Faculty of Physical Education and Recreation, telephone 492-3341.

Selection Committee (Business) invites input

A Selection Committee for Chair, Department of Accounting and Management Infor-

mation Systems, Faculty of Business, has been established. Anyone wishing to make suggestions/comments to this committee should do so before 1 January 1994 by writing to Rodney Schneek, Dean, Faculty of Business, 4-40 Business Building.

School of Native Studies celebrating fifth anniversary

The School of Native Studies will hold its fifth anniversary celebration 27 November at the Edmonton Convention Centre. The festivities consist of a reception (6 pm), dinner, dance, and silent auction. Tickets: \$35; U of A students \$25; dance only \$10. For information and tickets, call 492-2991.

NAIT plans reunion

NAIT (Biological Sciences) is planning a homecoming celebration in May 1994 in conjunction with "25 graduating years." The contact people are Cris Chernuka and George Allen, at 471-8586.

Electronic stock market's election predictions nearly bang-on

The Faculty of Business's electronic stock market came very close to predicting the outcome of the federal election.

"The results were actually quite astounding," says Barry Nault, one of three Business professors who set up the market. "We compare very favourably with what the Southam News poll predicted on 22 October."

Modelled on a computer software program developed at the University of Iowa and used in several countries to predict election outcomes, the electronic, computer-based stock market allowed students and staff at the U of A to trade in political parties' stock during the election campaign, and at the same time have a little fun playing the market.

Here's what happened:

Federal election outcome 25 October:

Bloc Québécois ... 14%
Liberals 41%
NDP 7%
PCs 16%
Reform 19%
Others 3%

U of A market prediction the day before the election:

Bloc Québécois ... 12.5%
Liberals 39.8%
NDP 5.7%
PCs 18.8%
Reform 18.1%
Others 2.3%

Southam News poll:

Bloc Québécois ... 14%
Liberals 43%
NDP 7%
PCs 17%
Reform 17%
Others 2%

A modest proposal ...

Pat on the back for a job well done would encourage many professors — UTS panelist

By Michael Robb

University administrators should make a point of recognizing colleagues' good work, says one of the speakers at a recent University Teaching Services forum titled "Revitalization—Do We Need That?"

Jim Muldowney (Mathematics) says it's important that University administrators recognize the good work professors are doing in the classroom. What would it cost, for example, for a department chair to walk down to a colleague's office and say, "Well

done"? Or, perhaps the Vice-President (Academic) could assign someone to visit classrooms for about an hour per week, and stand up and thank the professor on behalf of the University for a job well done.

"The University has a few formal teaching awards, but I'm beginning to have my doubts about the merits of those. They only recognize a few people," said Dr Muldowney. "And we all know many people in our own departments who aren't spec-

tacular and who'll never be recognized, but who still should have some formal recognition.

"We have to recognize the people who are doing worthwhile things. The superstars hear about it, but the foot soldiers don't always hear about it."

Co-panelists Winnie Tonn (Women's Studies) and Fred Vermeulen (Electrical Engineering) both thought Dr Muldowney's suggestions were good ones. Added Dr

Vermeulen, there are all sorts of pronouncements about the importance of teaching, but there needs to be demonstrations of the fact the institution actually does value good teaching.

Hazel Clarkson (Physical Therapy) said it is also important to recognize that there are low times in professors' lives, when encouragement would be equally welcome.

CCI publishes exhaustive work on wolves, bison

By Michael Robb

When wolves surround herds of bison in Wood Buffalo National Park, the bison close ranks. If the attackers persist, the bison stampede and the wolves pursue a single bison, separating it from the herd. They dart in, tearing at the bison's soft hindquarters. Tiring, the bison will soon be surrounded by the pack. As the wolves take turns attacking the bison from behind, a few daring wolves tear at the bison's nose, attempting to pull their prey down.

It's a drama that has been played out for millennia, but it may be severely curtailed if bison habitat continues to erode in the area. Over the last two decades alone, the bison have decreased from an estimated 10,000 in 1971 to 3,400 in 1991.

In their newly released book, *Wolves, bison...and the Dynamics Related to the Peace-Athabasca Delta in Canada's Wood Buffalo National Park*, published by the Canadian Circumpolar Institute, the authors describe in minute detail the nature of those predator-prey relationships, as well as effects of severe winters, changing hydrological conditions and disease on the bison population.

Ludwig Carbyn, an adjunct professor with CCI, and co-authors Sebastian Oosenbrug and Douglas Anions, state: "Our analysis of all the factors that may have contributed to the dramatic changes in bison numbers in Wood Buffalo National Park leads

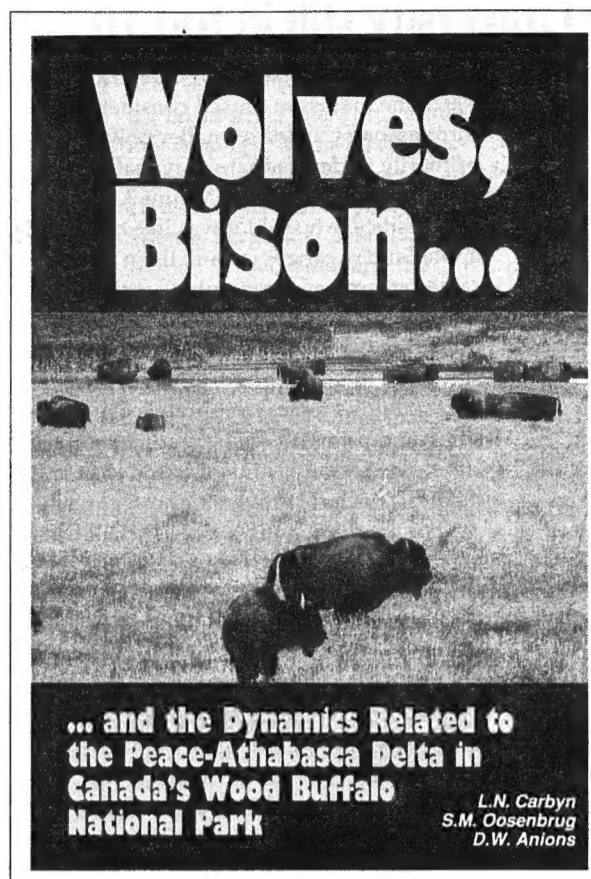
us to believe that wolf predation is the most obvious and immediate cause for the observed decline.

"What is more difficult to identify are the factors that predispose bison to wolf predation. On the surface it appears that habitat deterioration is the most obvious factor. Disease and habitat deterioration may well be important contributory or ultimate factors," they conclude.

"The authors make a good case for the hypothesis that the physical changes in the delta have favoured wolves at the expense of the bison," says Bill Fuller, Professor Emeritus and former head of the Department of Zoology, a recognized authority on bison who has been doing work in the area since the late '40s.

"They consider that the most pressing problem facing the park is the need to reverse the changes that have occurred in the hydrological regime in the hope that it is not too late to reverse the changes that have occurred in the vegetation," Dr Fuller says. "I strongly support the position and hope that the recommendations will not fall on deaf bureaucratic ears. Time is of the essence."

The authors point out that the current decline in bison population should not detract attention from the much wider and potentially more disastrous ecosystem-related problem. The fact is, they conclude, the construction in the '60s of the Bennett Dam upstream



has resulted in the loss of critical sedge meadow bison habitat. Periodic flooding—now relatively infrequent—maintained that habitat.

Dr Carbyn says the drying up of the delta as a result of the Bennett Dam is "one of western Canada's greatest ecological disasters."

One possible solution, the authors suggest, may lie in the construction of an "ecological dam" on the Slave River which could be used when required to produce flooding in the delta.

According to Rolf Peterson, professor of wildlife ecology at Michigan Technological University, the study by Carbyn, Oosenbrug and Anions is an important landmark in the long history of bison investigations in Wood Buffalo National Park.

"It comes at a critical juncture in the management history of the park, as the future of the wood bison is again the subject of intense debate," he says. He adds that the book is the only in-depth study of a predator-prey system that once dominated the mid-section of the North American continent.

Dr Carbyn, who has travelled to the delta twice a year since 1985, says completion of the book was tremendously gratifying. He hopes scientists and laypeople will find it interesting and readable. "I

hope people will be able to gain a better understanding of this unique wildlife area."

Readers who do not have a scientific background can simply skip the technical sections and still get a lot out of the book, he says.

Prior service costing increase

Last year, Alberta Treasury predicted that pension legislation would change effective 1 January 1993, making purchase of prior service more expensive. Also last year, Pension and Benefits Administration asked staff to complete any requests for prior service before 1 December 1992.

Alberta Treasury's prediction was out by a year. They now estimate an effective date of 1 January 1994 for the change in costing method for prior service. The Pension and Benefits office says it has processed most of the outstanding prior service request that it has received but that there may be some par-

ticipants who have not yet requested purchase of prior service under the current, less costly, rules.

If you are a participant in the Academic or Support Staff Pension Plans and have prior service for which you have not yet requested a cost estimate, please contact Pension and Benefits at 492-9263 as soon as possible to obtain an application form.

Pension and Benefits asks that completed application forms be received no later than 1 December 1993, otherwise they can not ensure that applications will be processed.

Nominations sought for new Chancellor

The University of Alberta Senate is seeking nominations for a new Chancellor.

The Chancellor is the titular head of the University, chairs all Senate meetings, serves as a member of the Board of Governors, represents the University at ceremonial occasions and presides over convocation to confer all degrees. The Chancellor is elected by the Senate to a nonrenewable four-year term.

Individuals or groups are invited to nominate a Canadian citizen or landed immigrant who, in addition to having an interest in and a concern for the University of Alberta and the community, is: active in the community; experienced in organizational processes; and able to devote adequate time to the duties of the Chancellorship.

A search committee for Chancellor has been established and nominations, including the names and addresses of two nominators, the signed consent of the nominee, and the nominee's résumé, should be received by the Senate office no later than 15 December 1993. Nominators are asked to send their nominations to: Chair, Search Committee for Chancellor, The Senate, 150 Athabasca Hall, University of Alberta, Edmonton Alberta T6G 2E8. Telephone (403) 492-2268.

The new Chancellor will be elected at the 11 March 1994 Senate meeting and will assume office on 1 July 1994.

Sandy Mactaggart is the current Chancellor; his four-year term expires on 30 June 1994.

LAURELS

■ Fourth-year Dentistry students James Evanson and James Koehler have done themselves proud. Evanson is one of two award winners whose research abstract submissions were selected from all the Canadian faculties of dentistry. He will present his research at the forthcoming International Hatton Awards Competition at the International Association of Dental Research meeting in Seattle. By placing first at the Canadian Dental Association/Dentsply Student Table Clinician Program held in Ottawa, Koehler earned a trip to the annual meeting of the American Dental Association in San Francisco.

■ Pandas field hockey coach Dru Marshall is coach of the year in Canada West. It's the second consecutive year that Dr Marshall has been selected top coach.

■ Inscrit dans le programme de BEd\BSc, Gilles Préfontaine est le lauréat de la Bourse des Soeurs de l'Assomption pour 1993-94. Signalons que cette bourse appuie, sur la base de l'excellence de son dossier académique, un étudiant ou une étudiante qui s'inscrit dans un programme d'éducation. Préfontaine désire enseigner les sciences au secondaire et suivra ainsi les traces de plusieurs membres de sa famille déjà dans l'enseignement.



Gilles Préfontaine

Préfontaine s'intéresse à l'informatique (il travaille d'ailleurs à temps partiel dans un magasin d'informatique), et s'adonne à la lecture de romans de science-fiction dans ses moments de détente. Représentant son

école au sein du programme Génies en herbe il a eu l'occasion de se rendre, à deux reprises, à Montréal et à Québec avec une équipe lauréate.

■ Paul Kebarle, Professor Emeritus of Chemistry, has been awarded the Frank H Field and Joe L Franklin Award for Outstanding Achievement in Mass Spectrometry. The American Chemical Society, noting Professor Kebarle's discovery of the ability to measure association and solvation equilibria for ion molecules in the gas phase using mass spectroscopy, says he has "revolutionized the qualitative and quantitative thinking of chemists who deal with ions."

■ Jan Vallance is the 1993 recipient of the R Tait McKenzie Award of Honour. The award is the most prestigious given by the Canadian Association for Health, Physical

Education and Recreation. It was instituted in 1948.

■ Finance and Management Science Professor Chris Janssen was in Stockholm's Town Hall 12 November to accept an honorary Doctor of Technology degree from the Royal Institute of Technology, Sweden's oldest engineering school. Dr Janssen has been giving lectures and seminars at the Royal Institute intermittently over a 15-year period. Since 1989, he has supervised a number of students from the institute who have completed their major projects in Canada.

■ For the second consecutive year the Pandas field hockey team has won bronze at the CIAU women's field hockey championships. Heather Jones repeated as the tournament's Most Valuable Player, and Di Kucharski and Carla Somerville were named to the all star team.

Nursing in the '90s ...

Students experience innovative health promotion programming at Grey Nuns

Nursing certainly isn't what it used to be. Just ask Nursing 302 students Karen Storch and Bonnah Siemens, who spent their recent clinical placement working at the Grey Nuns Hospital's Health Resources Centre.

"It allowed us to see a totally different approach to nursing," says Storch, who, along with Siemens, worked on a HRC-sponsored and coordinated project with high school students at Holy Trinity.

The teen smoking awareness workshop, a pilot project, is designed to educate students about the hazards of smoking, says HRC health promotion coordinator Cheryl Barabash-Pope. The two third-year students helped the Centre develop pre- and post-questionnaires, organize a panel discussion for students and do literature searches on the topic.

The high school students were taken to the hospital where they heard a doctor, a psychologist, two high school students and two emphysema patients participate in a panel discussion.

"We had never had the experience of working on a project of this magnitude and it was neat to see just how nurses could coordinate the whole thing," explains Storch. Barabash-Pope says the HRC doesn't have a big budget and in the past has relied on volunteers to assist with its programming. But having nursing students, already highly trained with a great deal of expertise, was a most welcome addition.



The teen smoking awareness workshop had a rapt audience.

The HRC operates a number of health promotion programs. "The Grey Nuns really believes in this, and it's a credit to them that we're still here," says Barabash-Pope, acknowledging that hospitals are under tremendous pressure.

According to the students, health promotion represents a different direction in nursing. "Health promotion is definitely where it's at," says Siemens, pointing out that the pro-

gramming being carried out by the HRC is in the area of prevention.

Nursing 302 instructor Donnie McIntosh says health promotion is so logical, "but until health promotion programming is evaluated, we don't really know whether it's working." So the students, as part of their clinical placement experiences, have to evaluate the projects.

BOARD TO CONSIDER OPENING DOORS AT JANUARY MEETING

Opening Doors: A Plan for Employment Equity at the University of Alberta will be discussed at the 7 January meeting of the Board of Governors.

The document will be on the agenda in the nonconfidential portion of the meeting.

In the summer, the Board voted 10-4 to table *Opening Doors*. Those in favour of the motion said they wanted more time to examine the implications of some of the plan's recommendations.

The plan, recommended last March by General Faculties Council, contains a number of recommendations to eliminate artificial barriers to employment.

Law professor bases lecture on Rodriguez case

University of Manitoba law professor Barney Sneiderman will deliver the Third Annual Picard Lecture in Health Law, 24 November at 7:30 pm.

Professor Sneiderman's topic is "The Rodriguez Case: Where Do We Go From Here?"

The lecture will take place in 231/237 Law Centre; a reception will follow in the Faculty Lounge on the 4th Floor of the Law Centre.

The Picard Lecture in Health Law is sponsored by the Health Law Institute, University of Alberta, with financial support from the Alberta Law Foundation.

Agriculture, Forestry and Home Economics Awards Night

Florance Niemi leads the way

At the Faculty of Agriculture, Forestry and Home Economics' recent Awards Night, Vice-President (Student and Academic Services) Lois Stanford referred to the award recipients as "bright lights."

One such beacon is Florance Niemi, a mature student and parent who will soon complete her BSc Forestry degree program. She was presented with no less than four prizes: The Forestry Equipment Spring Camp Prize, the Edmonton Northlands Undergraduate Scholarship, the Louise McKinney Postsecondary Scholarship, and the Wade James Shipka Memorial Scholarship.

The total value of the awards is \$4,200. (During the evening at Lister Hall, more than 80 awards valued at \$138,060 were presented to students.)

Niemi is also on the Dean's List and maintains a first class standing.

A native of Valleyview, Alberta, she attended Ross Sheppard High School in Edmonton and then earned a bachelor's degree in science, majoring in chemistry, at this University. She also holds a teaching certificate, but gave up the classroom in favour of managing the sawmill and farm that she and her husband own. That interest, coupled with some work at the Daishowa-Marubeni Inter-



Florance Niemi is congratulated by Dean Ed Tyrchniewicz.

national pulp mill near Peace River, piqued her interest in silviculture.

Her first semester, which emphasized calculus and statistics, caused her some problems, as did the fact that she had been out of school for some time. Still, at the end of her first year in the BSc Forest Science program, Niemi was awarded the WR Zeidler Memorial Scholarship.

"I've always strived for high marks," she says, "and that award got me thinking 'I can do that again.'"

She did, in spades.

Tax deductions for 1993 prior service pension contributions

Revenue Canada's deadline for making contributions towards purchasing prior service for the 1993 tax year is 31 December 1993.

Staff members currently purchasing prior service may wish to make additional payments over and above their regular payroll deductions. Such payments can be made in either of the following ways: 1) request the additional payment be deducted from your December paycheque, or 2) forward a personal cheque, made payable to the University of Alberta, for the additional payment.

(Notice: Payment may be postdated up to and including 31 December 1993.)

Staff wishing to make an additional payment may submit their request in writing, indicating the amount and payment method chosen, to: Pension and Benefits Administration, 302 Assiniboia Hall, no later than 3 December 1993. Please supply Social Insurance Number for credit of the additional payment to your 1993 T4.

Pension and Benefits Administration suggests that you consult with your tax advisor concerning any steps you should take in 1993 to maximize your 1993 prior service tax deductions. As a matter of policy, Pension and Benefits Administration staff have been instructed not to attempt to provide personal tax advice.

ACTIVITIES

The following members of the Sociology Department presented papers at the 22nd conference of the International Union for the Scientific Study of Population (IUSSP) held in Montreal: Karol Krotki, P Krishnan, Frank Trovato, Susan McDaniel, N Lalu, Cathie Krull, Colin Reid, Jongli Tang, Isaac Addai, and Carmen Largaespada-Fredersdorff...Jo-An Christiansen of Edmonton is this year's recipient of the Sandra Garvie Memorial Fund award. Currently in the employ of the Alberta Legislature Library, Christiansen plans to take Faculty of Extension courses on Legal Research and Legal Databases. The award honours the late

Sandra Garvie, librarian at the Faculty of Extension's Legal Resource Centre from 1976 to 1979...Henry Hodysh (Educational Foundations) presented a keynote address to the XV International Standing Conference on the History of Education. The conference was held in Lisbon, Portugal; Professor Hodysh spoke on "Autobiography as Educational History: The Problem of Objectivity in the History of the Colonial Experience"...*White Buick*, a collection of short stories by Greg Hollingshead (English) has been shortlisted for the Commonwealth Writers Prize in the Caribbean and Canada region...Shyamal Bagchee (English) is the first non-American citizen to be elected to the board of directors of the TS Eliot Society. Dr Bagchee will serve on the 10-member board for three years.

McCalla Professorships: Small Faculties Committee

Applications are invited from continuing faculty from the Faculties of Dentistry, Extension, Law, Nursing, Pharmacy and Pharmaceutical Sciences, Physical Education and Recreation, Rehabilitation Medicine, Faculté Saint-Jean, School of Native Studies, or Interdisciplinary Units/Centres.

These prestigious awards provide full-time teaching relief for the period September to April

to enable recipients to pursue a research project in Edmonton.

Application information is available from the offices of the respective Deans.

Applications must be received by the Associate Vice-President (Academic) by 1 December 1993.

Electrical engineer helping to make x-ray microscope viable research tool

Researchers here and at King's College, London, collaborating on project

By Michael Robb

Many researchers around the globe know just how difficult and expensive it is to book time and conduct experiments on the relatively few massive multimillion dollar facilities called synchrotrons.

It's not surprising, therefore, that some researchers have looked for alternatives. One alternative is to use high power lasers for some applications to replace synchrotron sources. Now, many researchers are increasingly turning their attention to the development of an x-ray microscope to do just that.

An electrical engineer at the University of Alberta, Bob Fedosejevs, and a physicist at King's College, London, Alan Michette, along with their respective research groups, are working together to see if they can develop this technology.

This spring, Dr Michette came to the U of A to conduct proof of principle experiments with Dr Fedosejevs, and while a great deal more work has to be conducted, they believe they've developed a useful and more economical instrument.

"The idea of this type of microscope is that it will allow biologists and material scientists to look at specimens with much better spatial resolution than an optical microscope and without complicated specimen preparation that is necessary with electron microscopes," explains Dr Michette.

Cells must be sliced exceptionally thin and chemically prepared if they're going to be viewed under an electron microscope, and that means they're not being viewed in their natural state. So, although x-ray micro-



Bob Fedosejevs (Electrical Engineering), beside his x-ray source chamber, is in the forefront of x-ray microscopy technology.

scopes don't allow researchers to see as fine a detail as they could under an electron microscope, researchers are able to see cells in their natural state.

To power these microscopes, a flux of low energy x-rays has to be generated. Typically, those x-rays of sufficient intensity had to be generated in synchrotrons, where very

high energy beams of electrons are forced to travel in a circular path by a series of magnets. As they travel, they emit intense radiation which can be used in instruments like x-ray microscopes.

But Drs Fedosejevs and Michette, using laser beams generated with equipment at this University, have developed very small, intense x-ray sources, that are the correct

wavelength to be used in an x-ray microscope.

"There are only a few places in the world which have the right sort of lasers to allow us to do the experiments," says Dr Michette. "One of them is here [at the U of A] and the other is the Rutherford laboratory in England."

The laser beam is focused for a very short time onto the surface of the material—in this case a plastic film—heated to a million degrees celsius. The surface is vapourized, forming a plasma. That plasma, points out Dr Fedosejevs, radiates x-rays.

The researchers have developed another innovation. Instead of keeping the x-ray beam stationary and mechanically scanning the specimen, they've developed a system whereby the specimen remains stationary and the x-ray source moves. In effect, the scanning microscope's x-ray beam scans across the specimen and builds up an image like a television picture.

"We've shown it can work," says Dr Fedosejevs. Now the objective is to improve the resolution.

Drs Fedosejevs and Michette have a NATO travel grant, which has allowed them to travel to one another's facilities. They first met in 1988 at the Max Planck Institute of Quantum Optics, Germany, when they were both on sabbatical. Since then, they have collaborated. Dr Fedosejevs also has a Natural Sciences and Engineering Research Council strategic grant to support related work on x-ray lithography.

Henry Kreisel Scholars 'the best of the best'

Two years ago, the Registrar's Office and Student Awards began working on a proposal to create a scholarship program to encourage more academically gifted students to attend the University of Alberta.

The "returns" are in and officials are well pleased.

"Our first competition can best be described as a resounding success," commented Lois Stanford, Vice-President (Student and Academic Services), at a luncheon held recently in honour of the Henry Kreisel Memorial Honors Scholarship recipients.

A total of 808 applications were received from across western Canada, Dr Stanford said. "The scholars whom we honour here today represent the very best of those who applied. Given the extremely high quality of applications received, recipients can indeed feel very proud of their selection as Henry Kreisel Scholars. You are the best of the best."

The Academic Excellence Scholarship program was announced by President Paul Davenport in July 1992. He also announced that the most prestigious of the awards in the program would be named after the late Henry Kreisel in recognition of his many contributions to the U of A, the Province of Alberta, and to his adopted country, Canada, and of his commitment to students and to the development of their academic gifts.

A permanent endowment was created to ensure that the Henry Kreisel Memorial Honors

Scholarships would be awarded in perpetuity. Scholarships are presented to students who have demonstrated superior academic achievement in Grade 11 and have subsequently chosen to attend the U of A.

The first group of Henry Kreisel Scholars consists of: Adam Beacham, Paul Kane High School, Faculty of Science; Natasha Broemling, Salisbury Composite High School, Faculty of Science; Preston Holloway, Gus Wetter School, Faculty of Engineering; Shao Lee, Queen Elizabeth High School, Faculty of Science; Karen Mah, Archbishop MacDonald High School, Faculty of Business; Leanne McKeivitt, Lloydminster Comprehensive High School, Faculty of Science; Paula Ostaszewski, Lamont Junior Senior High School, Faculty of Science; James Quan, ME LaZerte Composite High School, Faculty of Engineering; Leonor Rondeau, Ecole Notre Dame Senior High School, Faculty of Arts; Ginetta Salvalaggio, Ecole Secondaire Beaumont High School, Faculté Saint-Jean; and Janelle Wiedrick, Grimshaw Junior Senior High School, Faculty of Rehabilitation Medicine.

Dr Stanford referred to Dr Kreisel as "an inspiring teacher who led generations of students to love and talk about literature."

Vice-President (Academic) John McDonald and Mrs Esther Kreisel presented each scholar with their award and a copy of either *The Rich Man* or *The Betrayal*, both written by Dr Kreisel.

His responsibilities as Chair of Athletics include campus recreation programs (among the largest in Canada) and the 16 Golden Bears and Pandas intercollegiate teams. "The mandate of the Department of Athletics is to provide quality sport and recreation programs for U of A students," Reade says. "The challenge is to continue to do that within the financial constraints that we face."

Reade to head Athletics

Ian Reade, currently Associate Director of Interuniversity Athletics in the Department of Athletics, has been appointed Chair of the Department of Athletics, effective 1 January 1994.

Reade has been with the department since June 1990. Previously he was manager of Research and Planning with Stewart, Weir and Company.

City man enriches Native Studies' collection

Early in his life (which is now nicely into its eighth decade), Harry Strynadka became interested in native people. His father's homestead was not far from the Saddle Lake Reserve and young Strynadka spent many an hour watching his neighbours go about their work and play.

He began to collect materials like Hudson's Bay Company records and copies of various Indian treaties complete with maps, and continued to do so during his long career as a junior high school teacher in Edmonton and various communities in the province. When his collection became more than he could handle, he thought about who could

make the best use of the publications he was prepared to part with. The answer was students enrolled in the School of Native Studies, and Strynadka proceeded to donate some 600 titles to the University Library, the vast majority of which were forwarded to the School's Reading Room.

The gift includes fiction, nonfiction, artbooks, biographies and government publications.

James Dempsey, Director of the School of Native Studies, says that the number one benefit for the School is that a number of the books donated are now out of print.

Rutherford Award for Excellence in Undergraduate Teaching

The GFC Undergraduate Teaching Awards Committee (UTAC) reminds the University community that nominations are now being sought for the annual Rutherford Award for Excellence in Undergraduate Teaching.

The purpose of the Rutherford Award is to recognize excellent teaching, to publicize such excellence to the University and the wider community, to encourage the pursuit of excellence in teaching, and to promote informed discussion of teaching and its improvement at the University of Alberta.

Nominations are made by Faculties that teach undergraduate students, and information about the nomination procedures and adjudication criteria has been sent to those Faculties. Nominations should be made through a Faculty committee and submitted by the Faculty to the Secretary of UTAC, 2-5 University Hall. Anyone who needs assistance and advice in preparing nominations should contact Ms Bente Roed, Education Director, University Teaching Services, 215 Central Academic Building (492-2826). The deadline for receipt of award nominations is 11 February 1994. In most cases, individual Faculties have established earlier deadlines to allow for internal adjudication procedures.

At least one award, but not more than five, is given annually. The award recipients are publicly recognized at a special occasion and at Convocation. They also receive a memento and a cash prize of \$2,500.

ANTHROPOLOGY

24 November, noon

Heather Harris, "Traditional Native Views of Land Management." 14-28 Tory Building.

BOTANY

24 November, 3:30 pm

Debbie Bigelow, "Propagation of Wild Rose for Reclamation by Breaking Seed Dormancy, Rooting Stem Cuttings and *In Vitro* Techniques." M-149 Biological Sciences Centre.

25 November, 3:30 pm

Gavin Kernaghan, "The Effect of Forest Fertilization (N) on the Ectomycorrhizae of JWestern Hemlock (*Tsuga Heterophylla*)." M-149 Biological Sciences Centre

CAMPUS MINISTRY

29 November, 7:30 pm

Father George Smith, "Understanding Catholicism Today—The Church as Body of Christ." Newman Centre, St Joseph's College.

CANADIAN INSTITUTE OF UKRAINIAN STUDIES

1 December, 7:30 pm

Jars Balan, freelance writer and editor, "The Kalyna Country Ecomuseum of North-Central Alberta." Heritage Lounge, Athabasca Hall.

CHEMICAL ENGINEERING

25 November, 3:30 pm

Patrick Tessier, Pulp and Paper Centre, University of British Columbia, "Different Approaches for Pulp Processing Modeling." 342 Chemical-Mineral Engineering Building.

2 December, 3:30 pm

MN Esmail, University of Saskatchewan, "Computational Fluid Dynamics in a Short-Dwell Paper-Coater." 342 Chemical-Mineral Engineering Building.

COMPARATIVE LITERATURE AND FILM STUDIES

25 November, 3:30 pm

Lecture series: Literary and Film Studies: Theoretical and Methodological Intersections. Christopher Menu, "From Production to Creation: Performance and the Literary Text." 326 Arts Building.

COMPUTING SCIENCE

22 November, 3:30 pm

Hector Levesque, professor, University of Toronto and a Fellow of the Canadian Institute for Advanced Research, "Is Reasoning Too Hard?" TBL-12 Tory Lecture Theatre.

DENTISTRY

23 November, noon

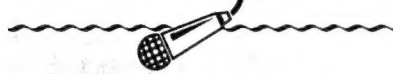
Edwin HK Yen, head, Preventive Dental Science, University of Manitoba, "Orthodontics *In Vitro*: May the Force Be With You." 4069 Dentistry-Pharmacy Centre.

ECONOMICS

24 November, 3 pm

Eric J Hanson Memorial Lecture. Arthur Kroeger, chancellor of Carleton University, chair of the Public Policy Forum, and a

TALKS



visiting professor at Queen's University and the University of Toronto, "Governments and the 'Jobs' Issue." 2-09 Business Building.

EIGHTEENTH-CENTURY STUDIES GROUP

24 November, 4 pm

Jim Bohun and David Gramit, "Music in the Public and Private Sphere in the Eighteenth Century." 326 Arts Building.

ENTOMOLOGY

25 November, 4 pm

Rick Butts, Agriculture Canada Research Station, Lethbridge, "Development of an Integrated Pest Management Program for the Russian Wheat Aphid." TBW-1 Tory Breezeway.

2 December, 4 pm

Robin McQueen, "Alternatives to Insecticides for the Control of Birch Leaf Miners; *Fenusa Pusilla* and *Profenusa Thomsoni*." TBW-1 Tory Breezeway.

GENETICS

19 November, 3:30 pm

Peter Howard, Department of Biology, University of Regina, "Studies on the Extracellular Secretion of Proteins by *Aeromonas Hydrophila*." G-116 Biological Sciences Centre.

GEOGRAPHY

19 November, 3 pm

Steve Zoltai, adjunct professor, Forestry Canada, "Climatic Changes as Shown by Peat Lands in Permafrost." 3-36 Tory Building.

26 November, 3 pm

Augie Akuoko-Asibey, "Beneficiaries' Perspectives on the Developmental Impacts of a Rural Water Supply Program in Ghana." 3-36 Tory Building.

3 December, 3 pm

Dale Leckie, Geological Survey of Canada, "Gravel Braided Rivers and Coastlines of the Canterbury Plains, New Zealand—A Basin Dominated by Extremes." 3-36 Tory Building.

GERMANIC LANGUAGES

19 November, 3 pm

Christopher Hale, "Aksel Sandemose and the 'Dominion of Canada': The Canadian Prairies of the 1920's as Seen Through the Eyes of a Danish Writer." 326 Arts Building.

3 December, 3 pm

Erwin J Warkentin, "Computer Assisted Language Learning: Desperately Seeking a New Metaphor." 320 Arts Building.

HISTORY

19 November, 3 pm

Alison Winter, research fellow, St John's College, Cambridge, "Harriet Martineau and the Reform of the Invalid in Victorian England." Cosponsors: Nursing, English, Women's Studies, Anthropology and WISEST. 2-58 Tory Building.

LIMNOLOGY AND FISHERIES DISCUSSION GROUP

25 November, 12:30 pm

Rena Vendenbos, "Food and Waterborne Uptake Rates of Mercury by Yellow Perch: A Mechanistic Model." G-116 Biological Sciences Centre.

2 December, 12:30 pm

Rich Brown, "Winter Habitat Use by Cutthroat Trout." G-116 Biological Sciences Centre.

MEDICAL MICROBIOLOGY AND INFECTIOUS DISEASES

19 November, noon

Margaret C Finlayson, "Fifty Years with *Escherichia Coli*.—A Long and Muddy Road." 2J4.02 Mackenzie Health Sciences Centre.

23 November, 4 pm

Dennis Y Kunimoto, "TB: Tracking the Plague." 2J4.02 Mackenzie Health Sciences Centre.

NUTRITION AND METABOLISM RESEARCH SEMINAR

25 November, 3:30 pm

Walter Dixon, "The Transmembrane-4 (TM4) Family of Proteins: Versatile Players in Cell Adhesion and Signalling Pathways." 1-13 Agriculture-Forestry Centre.

PERINATAL RESEARCH CENTRE

30 November, noon

Nestor Demianczuk, chief, Department of Obstetrics and Gynaecology, Royal Alexandra Hospital, and Marilyn Evans, clinical education, Royal Alexandra Hospital, "Fetal Oxygen Saturation Monitoring in Labour." 2J4.02 Mackenzie Health Sciences Centre.

PLANT SCIENCE

23 November, 12:30 pm

Yukio Shirako, Department of Biology, California Institute of Technology, Pasadena, "Molecular Biology and Evolution of Fungus-Transmitted Plant RNA Viruses Belonging to Sindbis-Like Superfamily." 1-30 Agriculture-Forestry Centre.

25 November, 12:30 pm

Gefu Wang, "Construction of Transgenic Plants with Increased Tolerance to Pathogens." 1-30 Agriculture-Forestry Centre.

25 November, 3 pm

Stewart Rood, University of Lethbridge, "Genetic Control of Gibberellin Biosynthesis and Action—Designer Genes for Corn and Canola." 1-06 Agriculture-Forestry Centre.

30 November, 12:30 pm

Qihong Zhong, "Plant Pathogenesis Related Proteins." 1-30 Agriculture-Forestry Centre.

POPULATION RESEARCH LABORATORY, SOCIOLOGY, EDMONTON CHAPTER OF THE CANADIAN POPULATION SOCIETY

25 November, 11 am

Annual Distinguished Canadian Demographer Lecture Series. Anatole Romaniuc, former director, Demography Division of Statistics Canada, Ottawa, "Reflections on Population Forecasting: From Prediction to Prospective Analysis." Cosponsor: Edmonton Chapter of the Canadian Population Society. TBW-2 Tory Breezeway.

26 November, 2 pm

Anatole Romaniuc, "Fertility Transition Among Aboriginal People of Canada: An Explanatory Framework." 5-15 Tory Building.

ASSOCIATION OF PROFESSORS EMERITI

25 November, 7 pm

Fred Engelmann, "The '93 Elections, and the Party Systems: Alberta and Canada." Emeritus Centre, 11034 89 Avenue.

RESEARCH SEMINARS IN EARLY WOMEN

23 November, 12:30 pm

Nicole Mallet, "Stage-Writings of Mme de Villedieu: A Seventeenth-Century Rarity." 320 Arts Building.

RURAL ECONOMY

22 November, 3:15 pm

Charles S Mataya, "Expenditure Switching Effect of Currency Devaluation." 519 General Services Building.

29 November, 3:15 pm

Johanna Pluske, "Finding Farmers' Values of Information Using the Contingent Valuation Method." 519 General Services Building.

SLAVIC AND EAST EUROPEAN STUDIES

24 November, 3 pm

Boris Briker, "Time, History and Fairy Tale: Three Readings of a Short Story by Bunin." 436 Arts Building.

SOIL SCIENCE

24 November, 2 pm

PC Brookes, Department of Soil Science, Rothamsted Experimental Station, UK, "Soil Biological Activity and Environmental Quality." 1-33 Earth Sciences Building.

2 December, 12:30 pm

Baoshan Xing, "A Novel Approach for Predicting Sorption Coefficients of Organic Compounds." 2-36 Earth Sciences Building.

STATISTICS AND APPLIED PROBABILITY

19 November, 3 pm

Yanhong Wu, "On the Sequential Sentence and Estimation Procedures for a Randomly Changing Mean." 657 CAB.

22 November, 3:30 pm

Boxin Tang, postdoctoral fellow, Universities of Toronto and Michigan, "On Supersaturated Designs." 657 CAB.

UNIVERSITY TEACHING SERVICES

22 November, 3 pm

Susan Shaw, "The Classroom Climate—A Chilly One for Some Students?" 281 Central Academic Building.

WOMEN'S STUDIES

1 December, 4 pm

Eva Dargay, "Religious Symbolism and Terrorism in War." Senate Chamber, Arts Building.

ZOOLOGY

19 November, 3:30 pm

William A Clemens, University of California, Berkeley, "Late Cretaceous Dinosaurs and Other Vertebrates from the North Slope, Alaska: Paleobiological Implications." M-149 Biological Sciences Centre.

26 November, 3:30 pm

AN Spencer, "What Can Studies of Ion Channels and Chemical Transmission in Jellyfish Tell Us About Early Metazoan Evolution?" M-149 Biological Sciences Centre.

3 December, 3:30 pm

Ray Turner, University of Calgary, "Tetraodon-Sensitive Dendritic Channels Underlie Oscillatory Discharge in Sensory Neurons of a Weakly Electric Fish." M-149 Biological Sciences Centre.

This symbol denotes environmentally related seminars/events. If you wish to have an environmentally related event listed in this way, please contact: The Environmental Research and Studies Centre, 492-6659.

INTERNATIONAL CENTRE SPONSORS STUDY ABROAD FAIR

Does the idea of studying abroad for part of your University of Alberta degree sound interesting? Would you like to learn more about what opportunities exist to study abroad for the summer, a term, or an entire academic year?

Display booths will be set up in SUB on 24 November from 10 am to 2 pm to provide information on study abroad and student exchange opportunities for U of A students.

Current and former exchange students will be on hand to share their expertise and experiences as part of Study Abroad Fair '93.

Students will have access to Sojourns, a special study, work and volunteer abroad database, and staff from the University's Education Abroad Program will be on hand to respond to questions.

Information pertaining to study in more than 50 countries will be readily available.

POSITIONS



The University of Alberta is committed to the principle of equity in employment. The University encourages applications from aboriginal persons, disabled persons, members of visible minorities and women.

ACADEMIC STAFF

CHAIR, DEPARTMENT OF PHYSICAL THERAPY

Applications are invited for the position of Chair of the Department of Physical Therapy at the University of Alberta. The Department is located within the Faculty of Rehabilitation Medicine and offers a BSc and MSc in Physical Therapy. The Faculty is housed in a newly renovated and refurbished facility providing excellent resources for teaching and research.

Specific responsibilities include: leadership in undergraduate and graduate program development, and development of an active research program.

Qualified candidates must be physical therapists who have a background in administration and teaching, as well as a demonstrated commitment to research. A doctoral degree is required. Salary will be commensurate with qualifications: Associate Professor range: \$49,593 to \$71,725 per year; Professor starts at \$61,813 per year. The position is available 1 July 1994.

The deadline for receipt of applications is 28 February 1994. Send *vitae* and names of three references to: Dr JW Vargo, Acting Dean, Faculty of Rehabilitation Medicine, 3-48 Corbett Hall, University of Alberta, Edmonton, Alberta T6G 2G4.

CHAIR, DEPARTMENT OF OCCUPATIONAL THERAPY

Applications are invited for the position of Chair of the Department of Occupational Therapy at the University of Alberta. The Department is located within the Faculty of Rehabilitation Medicine and offers a BSc and MSc in Occupational Therapy. The Faculty also offers an interdisciplinary PhD in Rehabilitation Science. The Faculty is housed in a newly renovated and refurbished facility providing excellent resources for teaching and research.

Specific responsibilities include: leadership in undergraduate and graduate program development, and development of an active research program.

Qualified candidates must be occupational therapists who have a background in administration and teaching, as well as a demonstrated commitment to research. A doctoral degree is preferred. Salary will be commensurate with qualifications: Associate Professor range: \$49,593 to \$71,725 per year; Professor starts at \$61,813 per year. The position is available 1 July 1994.

The deadline for receipt of applications is 28 February 1994. Send *vitae* and names of three references to: Dr JW Vargo, Acting Dean, Faculty of Rehabilitation Medicine, 3-48 Corbett Hall, University of Alberta, Edmonton, Alberta T6G 2G4.

DIRECTOR OF STUDENT INFORMATION SYSTEMS, OFFICE OF THE REGISTRAR

The University of Alberta invites applications for the Administrative Professional Officer position of Director of Student Information Systems, a position beginning 1 March 1994.

Reporting to the Associate Vice-President and Registrar, the Director is a key member of the Registrar's Office management team. Working in collaboration with registrarial colleagues, faculty and departmental representatives, and personnel from Computing and Network Services, the incumbent will provide leadership in the current transition from central mainframe-based student systems to a distributed client server environment.

Candidates should possess a university degree and have a minimum of five years of management experience in a student information systems environment. Experience with Oracle database systems and systems re-engineering will be an asset. The successful candidate will have excellent interpersonal and managerial skills and a proven track record of administrative experience and accomplishment in the field. The incumbent directs the efforts of a staff of 12 who are responsible for the computer production, maintenance, security and development of systems that support data needs of a major academic institution.

Salary range for this Administrative Professional Officer position: \$42,669 to \$64,005 per year.

The closing date for the competition is 1 January 1994. Letters of application should include a current résumé, a brief statement of qualifications for the position, and the names, addresses and telephone numbers of three referees who are familiar with the applicant's professional experience.

Applications should be sent to: Mr Brian J Silzer, Associate Vice-President and Registrar, Office of the Registrar, 201 Administration Building, University of Alberta, Edmonton, Alberta T6G 2M7.

SUPPORT STAFF

To obtain information on support staff positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 492-5201. You can also call the Job Information Line at 492-7205 (24 hours) or consult the weekly *Employment Opportunities Bulletin*.

Review Committee for the Chief Librarian and Director of Libraries

A Review Committee for the Chief Librarian and Director of Libraries is being established. The GFC Nominating Committee requires for this committee *three (3) members of the academic staff (Categories A1.1 or A1.5, of whom at least one (1) must be from Arts, elected by GFC. For staff category definitions, see Section 5 of the GFC Policy Manual. In brief, Categories A1.1 and A1.5 include full-time, continuing (tenure-track and soft-tenure-track) faculty. If you have any questions regarding the categories of staff and/or eligibility to serve on this committee, contact Mr G Bodnar, Coordinator, GFC Nominating Committee, 2-5 University Hall, 492-4733.*

If you wish to submit a nomination, please forward a letter of nomination and brief biographical sketch to Mr Bodnar at the above-noted address by 3 December.

Housing and Food Services and Educational Psychology offer leadership course

Officials in the Department of Educational Psychology and Housing and Food Services—in the spirit of thinking globally and acting locally—have developed a course they hope will hone the skills of emerging, young leaders on campus.

Leadership Education and the Residence Community, an Educational Psychology 397/497 course, is being offered this term to students who have assumed leadership positions in the University's residences. A number of education students are also enrolled.

The course, being taught by PhD graduate student Sally Brenton-Haden, has three primary objectives: introduce student leaders in residence to the theoretical underpinnings of current residence life and leadership practices; acquaint students with the skills and responsibilities associated with various leadership positions; and, allow student leaders to share concerns, solve problems, and network with their colleagues in the other communities.

One of the key aims is to make students more aware of their own leadership potential, Brenton-Haden says.

According to Michele Ouellette, Housing and Food Services' Residence Life Program Manager, the skills the students learn in the course are brought back into their residences and have an immediate impact on the quality of residence life. Those same students will eventually put those skills to work for future employers and in their communities, he says. In a tough job search environment, such leadership skills will make graduates just a little more marketable.

"I've been impressed with the students' capacity to become very self-aware," says Brenton-Haden. The [seven] students are

developing their abilities to think critically, grasp the concepts of leadership and understand how those concepts can be applied.

Brenton-Haden, who improved her own leadership skills at a university known for its outstanding student services, Mount Allison University, says students are encouraged to develop leadership skills in their own areas of interest.

The students deal with nuts and bolts issues, and the diversity of the group has resulted in dynamic discussion. The course includes: a history of residence halls, student development theory in residence, student leadership in residence, time management, study skills, stress management, peer counselling, interpersonal communication, assertive confrontation, conflict resolution, suicide intervention, diversity appreciation, the residence as a community, programming in residence, contemporary issues in residence and individual wellness.

People are cautious about adding any new courses in the kind of environment the University now finds itself in, says Fern Snart, Associate Chair, Educational Psychology. There certainly wasn't any dissension regarding the topic; it's a natural under Educational Psychology and the reactions to the course have been positive, she says. The course is funded by Housing and Food Services.

Asked what was it like working with a nonacademic department to develop the course, Dr Snart said, "It was a very productive interaction."

"Since the course is new, we didn't get the response from the residence community that we would have liked," says Ouellette. "Hopefully, our numbers will pick up next year."

The course will be more broadly advertised next year.

How much should international students pay to attend university?

Some MLAs say universities, not governments, should set fees

The MLA from Innisfail-Sylvan Lake wants the government to remove the tuition fee ceiling on foreign students studying in this province's postsecondary institutions.

Gary Severtson says universities should determine what foreign students should pay, and not the government.

The time limit set for the motion elapsed before a vote was taken.

"There are concerns among my constituents and among Albertans as a whole that we are subsidizing the costs of education for foreign students," the Tory MLA said in the Legislative Assembly.

"I think that the best way to ensure that foreign students' fees are charged as to benefit the education system for the long term is to allow the postsecondary institutions themselves to set their own fee levels," Severtson said, adding that such a move would be consistent with the government's desire to get out of areas in which it has no business.

He said the intent of the motion was not to reduce the number of foreign students studying in Alberta, nor was he suggesting that foreign students take up an unusual amount of space in the province's postsecondary institutions.

But the opposition Liberals questioned Severtson's intentions. "I think this is quite astounding that at a time when many colleges

on this continent are actively seeking students from other countries, we would have a move that could limit the participation of visa students in our own postsecondary schools," Liberal Advanced Education critic Don Massey said.

"It is quite astounding that at a time when the province is making a major thrust to attract investors from elsewhere and encouraging our business community to move into world markets, there would be this move to make interaction among international scholars and researchers more difficult," Massey said.

Murray Smith, Tory MLA for Calgary-Varsity, said there's no reason to suppose that if the motion passed tuition for international students would rise, or that students from less affluent countries would not continue to study in Alberta. "Rather, giving universities the authority to set their own tuition fees would inject a sense of decentralized decision-making and a sense of competitiveness into our universities," he said.

Muriel Abdurahman, Liberal MLA for Clover Bar-Fort Saskatchewan, said the reason the motion was before the Assembly is because of the economic status of the province. "I would suggest we would not be addressing a motion of this nature if we did not have a \$30 billion debt."

International students studying in Alberta's postsecondary institutions pay twice the amount of tuition fees as Canadian students.

Arthur Kroeger to speak on jobs issue

Arthur Kroeger will deliver the seventh Eric J Hanson Memorial Lecture on Wednesday, 24 November, at 3 pm in 2-09 Business Building. The title of his talk is "Governments and the 'Jobs' Issue."

Dr Kroeger is Chancellor of Carleton University, Chair of the Public Policy Forum, and a Visiting Professor at Queen's University and the University of Toronto. He is an alumnus of the University of Alberta, having received

an Honors BA before going to Oxford University on a Rhodes Scholarship. He was made an Officer of the Order of Canada in 1989, earned the Public Service Outstanding Achievement Award in the same year, and was awarded an honorary Doctor of Laws degree by the University of Western Ontario in 1991.

In a public service career that began in 1958, Dr Kroeger has served as Deputy Minis-

ter in the Departments of Indian Affairs and Northern Development; Transport; Ministry of State for Regional Development; Regional Industrial Expansion; Energy, Mines, and Resources; and Employment and Immigration.

The lecture is in memory of Eric J Hanson, a member of the Economics Department from 1946 until 1974.

EVENTS

EXHIBITIONS

BRUCE PEEL SPECIAL COLLECTIONS LIBRARY

Until 15 January

"The Songs I Had: Poetry and Prose of the Great War"—commemorating the 75th anniversary of the end of World War I. B7 Rutherford South.

EXTENSION CENTRE GALLERY

Until 30 November

"Senior Students Summer Work"—an exhibition of works by advanced painting and ceramics students in the Faculty of Extension's Fine Arts Program. Gallery hours: Monday to Thursday, 8:30 am to 8 pm; Friday, 8:30 am to 4:30 pm; Saturday, 9 am to noon. Information: 492-3034. 2-54 Extension Centre.

FAB GALLERY

Until 28 November

"Daryl Rydman—Natural History." This exhibition is the final visual presentation in partial fulfillment for the degree of MFA (Painting). Gallery hours: Tuesday to Friday, 10 am to 5 pm; Sunday, 2 to 5 pm; Saturday, Monday, statutory holidays, closed. 1-1 Fine Arts Building.

MCMULLEN GALLERY

Until 31 December

"Leading By Example"—an exhibition of work by instructors in the Craft Division of the Alberta College of Art, Calgary. Monday to Friday, 10 am to 4 pm; Saturday and Sunday, 1 to 4 pm, evenings subject to availability of volunteers. Information: 492-8428 or 492-4211. MacKenzie Health Sciences Centre.

FILMS

GERMANIC LANGUAGES

30 November, 7:15 pm

"Maria Stuart" (1985), in color, German with English subtitles. 141 Arts Building.

MUSIC

DEPARTMENT OF MUSIC

19 November, 8 pm

Opera Workshop—Alan Ord, director. Admission: \$5/adults, \$3/students and seniors. Convocation Hall.

21 November, 8 pm

Kilburn Encounters II—featuring Richard Lalli, baritone, Stéphane Lemelin, piano, and Norman Nelson, violin. Admission: \$7/adults, \$5/students and seniors. Convocation Hall.

23 November, 12:10 pm

Noon-Hour Organ Recital with Marnie Giesbrecht and Joachim Segger performing "Duet Suite: From the Memoirs of a Canadian Organist" by Jacobus Kloppers. Convocation Hall.

24 November, 8 pm

Chamber Music Concert. Convocation Hall.

26 November, 8 pm

U of A Madrigal Singers Concert. Debra Cairns Ollikkala, director. Convocation Hall.

28 November, 7:30 pm

Faculty Recital—Edmonton Symphony Orchestra Trombones and Tuba in Concert joined by Guest Trombone ensemble. Convocation Hall.

SPORTS

BASKETBALL

19 and 20 November, 6:30 pm

Pandas vs University of Lethbridge.

19 and 20 November, 8:15 pm

Bears vs University of Lethbridge.

26 and 27 November, 6:30 pm

Pandas vs University of British Columbia.

26 and 27 November, 8:15 pm

Bears vs University of British Columbia.

All games in Main Gym.

THEATRE

STUDIO THEATRE

Until 20 November

"In the Jungle of Cities"—by Bertolt Brecht. Directed by Uta Birnbaum, Mary Mooney Distinguished Visiting Artist. Information and tickets: 492-2495. Myer Horowitz Theatre.



ACCOMMODATIONS AVAILABLE

VICTORIA PROPERTIES - Experienced, knowledgeable realtor with Edmonton references will answer all queries, and send information. No cost or obligation. Call (604) 595-3200, Lois Dutton, Re/Max, Ports West, Victoria, BC.

MICHENER PARK - Two bedroom rowhouses and apartments for rent in University residence located in southwest Edmonton. Excellent bus service to University, utilities included. University enquiries welcome, 492-7044.

RENT - Furnished house. Ottewell, close to University. Three bedrooms, garage, basement. University staff, graduate student preferred. Nonsmoking. \$800 plus utilities. 1 February - 1 September 1994. JudyLynn, 427-3722 days, 465-1076 evenings.

RENT - Recently upgraded and renovated Parkallen house. Three bedrooms, two bathrooms, appliances, double garage. 434-2235.

RENT - Basement suite, semi-furnished. Close to University. Own entrance, kitchen, bathroom, shared laundry, garage. \$450 plus 1/3 utilities. 1 December. 433-2536, 431-1236 evenings.

More ads on page 12

Learn about the INTERNET

Do you need more information to participate in the fastest growing information and communication network in the world. If so, the University of Alberta Library invites you to attend a satellite video-conference entitled Exploring the INTERNET:

WHEN: December 2, 1993, 10 am to 12 noon

WHERE: Lister Hall, Banquet Room

WHO: open to University faculty and staff

HOW TO REGISTER: Phone: Call Rose at 5282
E-mail: RTHORVAL@vm
Fax: Rose at 3695
leave us your: Name, Department, Phone number

DEADLINE: registration is on a 1st come basis and is limited to 200

This interactive teleconference will answer such questions as:

- What is the Internet?
- How does it work?
- What kind of information resources are on the Internet?
- How do I find them?
- What is FTP?
- Telnet?
- Archie?
- Gopher?
- WAIS?



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